

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	755	(seal and plunger) and ("422" or "436") and (vessel or column or tube) and diaphragm	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2005/01/05 10:25
S2	0	("2769464").URPN.	USPAT	OR	OFF	2005/01/03 17:29
S3	19	("3969250").URPN.	USPAT	OR	OFF	2005/01/03 17:30
S4	3115	("422" or "436") and ((vessel or column or tube) with (diaphragm or seal) and (plug or plunger))	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2005/01/03 17:33
S5	1269	S4 and (automa\$4 or robot\$2)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2005/01/03 17:34
S6	0	("5705066").URPN.	USPAT	OR	OFF	2005/01/03 17:36
S7	0	("5705066").URPN.	USPAT	OR	OFF	2005/01/03 17:36
S8	86	("2442938" "3292077" "3387209" "3396331" "3404336" "3441136" "3461416" "3669880" "3726793" "3738356" "3753493" "3818765" "3831588" "3871913" "3920030" "3939069" "3979284" "3980946" "4017190" "4077882" "4085047" "4087185" "4138639" "4166961" "4197942" "4220920" "4227420" "4314480" "4371385" "4398542" "4399030" "4411783" "4412916" "4444597" "4460355" "4477342" "4515606" "4517081" "4526574" "4545389" "4572724" "4610782" "4676467" "4676771" "4676905" "4681606" "4690762" "4695385" "4734269" "4740755" "4758337" "4784495" "4784576" "4798090" "4825168" "4834888" "4844810" "4919802" "4925299" "4932987" "4964984" "4974457" "5004548" "5032265" "5041215" "5045096" "5061236" "5110477" "5114580" "5151184" "5178763" "5259961" "5336165" "5383249" "5392653" "5524427" "5547645" "Re32711").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/01/03 17:55

S9	5103	((vessel or tube) with (plunger or plug)) and diaphragm	US-PGPUB; USPAT; USOCR	OR	OFF	2005/01/03 17:56
S10	1385	S9 and pressure and (robot\$2 or automat\$3)	US-PGPUB; USPAT; USOCR	OR	OFF	2005/01/04 14:38
S11	7	("3784772").URPN.	USPAT	OR	OFF	2005/01/03 17:58
S12	2	"5735501"	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2005/01/04 12:51
S13	10	("3138173").URPN.	USPAT	OR	OFF	2005/01/04 14:22
S14	1	("4176678").URPN.	USPAT	OR	OFF	2005/01/04 14:26
S15	16	("2894530" "2896661" "3066767" "3138173" "3151626" "3155110" "3478922" "3811466" "4003398").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/01/04 14:26
S16	7	("2896661").URPN.	USPAT	OR	OFF	2005/01/04 14:27
S17	0	("4733689").URPN.	USPAT	OR	OFF	2005/01/04 14:27
S18	1	("3532105").URPN.	USPAT	OR	OFF	2005/01/04 14:28
S19	2	("4467999").URPN.	USPAT	OR	OFF	2005/01/04 14:33
S20	8	("2781051" "3282288" "3465786" "3915010" "4135550").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/01/04 14:33
S21	18	("4596271").URPN.	USPAT	OR	OFF	2005/01/04 14:35
S22	4194	((tube\$2 or vessel\$2 or column\$2 or container\$2) near4 (hold\$3 or carry\$4)) with (plunger or plug)	US-PGPUB; USPAT; USOCR	OR	OFF	2005/01/04 14:51
S23	51	S22 and (robot\$3 or automat\$3) and diaphragm and pressure	US-PGPUB; USPAT; USOCR	OR	OFF	2005/01/04 14:40
S24	0	("2030436").URPN.	USPAT	OR	OFF	2005/01/04 14:40
S25	0	("6332705").URPN.	USPAT	OR	OFF	2005/01/04 14:45
S26	5	("3627276" "4345843" "4390283" "5195825" "5399013").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/01/04 14:46
S27	0	("2002/0049391").URPN.	USPAT	OR	OFF	2005/01/04 14:50
S28	256	((tube\$2 or vessel\$2 or column\$2 or container\$2) near4 (hold\$3 or carry\$4)) with (plunger or plug) and diaphragm	US-PGPUB; USPAT; USOCR	OR	OFF	2005/01/04 15:05
S29	16	("4265374").URPN.	USPAT	OR	OFF	2005/01/04 14:53
S30	1	("6579245").URPN.	USPAT	OR	OFF	2005/01/04 14:57

S31	8	("4154229" "4207870" "4307731" "4421123" "4998920" "5356392" "5897508" "6004278").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/01/04 14:57
S32	66	("4207870").URPN.	USPAT	OR	OFF	2005/01/04 14:59
S33	17	("5084034").URPN.	USPAT	OR	OFF	2005/01/04 15:00
S34	1	("6039698").URPN.	USPAT	OR	OFF	2005/01/04 15:03
S35	6	("5084034" "5275730" "5377854" "5575317" "5673737" "5764731").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/01/04 15:03
S36	69147	pressure near4 (cap or plug or plunger)	US-PGPUB; USPAT; USOCR	OR	OFF	2005/01/04 15:05
S37	33060	S36 and (vessel\$2 or tube or container)	US-PGPUB; USPAT; USOCR	OR	OFF	2005/01/04 15:06
S38	4919	S37 and diaphragm	US-PGPUB; USPAT; USOCR	OR	OFF	2005/01/04 15:06
S39	1518	S38 and (robot\$2 or automat\$3)	US-PGPUB; USPAT; USOCR	OR	OFF	2005/01/04 16:58
S40	7	("4195730").URPN.	USPAT	OR	OFF	2005/01/04 15:47
S41	1	("4518003").URPN.	USPAT	OR	OFF	2005/01/04 15:52
S42	24	("4597412").URPN.	USPAT	OR	OFF	2005/01/04 15:54
S43	4	("4805443").URPN.	USPAT	OR	OFF	2005/01/04 16:04
S44	18	("5459351").URPN.	USPAT	OR	OFF	2005/01/04 16:12
S45	4	("4838089" "5029478" "5097841" "5257547").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/01/04 16:13
S46	0	("2002/0090736").URPN..	USPAT	OR	OFF	2005/01/04 16:21
S47	7	("4534483" "4655363" "4753358" "5512228" "5711441" "6116441" "6375028").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/01/04 16:44
S48	1	"60257091"	US-PGPUB; USPAT; USOCR	OR	OFF	2005/01/04 17:04
S49	14	"549351"	US-PGPUB; USPAT; USOCR	OR	OFF	2005/01/04 17:04
S50	21	"5459351"	US-PGPUB; USPAT; USOCR	OR	OFF	2005/01/04 17:04
S51	1	("4176678").URPN.	USPAT	OR	OFF	2005/01/04 17:22
S52	6928	(diaphragm with (cap or plug or plunger)) and pressure	USPAT	OR	OFF	2005/01/04 17:23

S53	7286	(diaphragm with (cap or plug or plunger or lid)) and pressure	USPAT	OR	OFF	2005/01/04 17:23
S54	1545	S53 and deflect\$4	USPAT	OR	OFF	2005/01/04 17:23
S55	15	("4425065").URPN.	USPAT	OR	OFF	2005/01/04 17:29
S56	4	S54 and (self-sealing near3 diaphragm)	USPAT	OR	OFF	2005/01/04 17:29
S57	3	("6237621").URPN.	USPAT	OR	OFF	2005/01/04 17:31
S58	21	("0679519" "0827823" "1185684" "2482198" "2595406" "2767735" "2803527" "3086698" "3785395" "3995653" "4579141" "4678014" "5343889").PN.	US-PPGPUB; USPAT; USOCR	OR	OFF	2005/01/04 17:31
S59	22	("5190067").URPN.	USPAT	OR	OFF	2005/01/04 17:51
S60	28	"6045755"	USPAT	OR	OFF	2005/01/04 17:51
S61	15	("4425065").URPN.	USPAT	OR	OFF	2005/01/04 18:30
S62	4	("4947544").URPN.	USPAT	OR	OFF	2005/01/04 18:37
S63	14	("3444341" "3890477" "3963889" "3983351" "4195209" "4202081" "4272660" "4328406" "4458117" "4464551" "4573398" "4638721" "4644116").PN.	US-PPGPUB; USPAT; USOCR	OR	OFF	2005/01/04 18:38
S64	5	("4638721").URPN.	USPAT	OR	OFF	2005/01/04 18:41

S65	114	("2779828" "3378656" "3419692" "3444341" "3515832" "3531607" "3564977" "3665373" "3673546" "3720090" "3764763" "3789171" "3816685" "3848517" "3876845" "3889077" "3889087" "3890477" "3898405" "3911238" "3916149" "3963889" "3983351" "3984649" "4007344" "4037317" "4081636" "4091249" "4104495" "4121073" "4145587" "4168415" "4172412" "4195209" "4200776" "4202081" "4214137" "4215254" "4220836" "4243858" "4272660" "4282476" "4287780" "4296287" "4306127" "4328406" "4330695" "4339638" "4342887" "4343974" "4346272" "4351105" "4356365" "4365406" "4400602" "4401964" "4446614" "4456801" "4458117" "4459444" "4464551" "4469923" "4473729" "4479039" "4490903" "4493957" "4495389" "4510763" "4532389" "4573398" "4581509" "4590670" "4591677" "4593166" "4616114" "4626636" "4638721" "4644116" "4667069" "4703140" "4720759" "4731510" "4737604" "4755638" "4757165" "4761525" "4777978" "4778963" "4783580" "4794214" "4804808" "4827094" "4845322" "4853504" "4855545" "4891479" "4931604" "4939321" "4947544" "4948931" "4967047" "4990728" "4998087" "5001317" "5004873" "5004876" "5015808" "5049708").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/01/04 18:43
S66	4	("4091249" "4342887" "4861953" "4948931").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/01/04 18:47
S67	8	("2704551" "3177313" "3378656" "3553402" "3816685").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/01/04 18:54
S68	2362	(vessel with diaphragm) and pressure	US-PGPUB; USPAT; USOCR	OR	OFF	2005/01/04 18:54
S69	4	("4932266").URPN.	USPAT	OR	OFF	2005/01/04 18:59

S70	6	("6050147").URPN.	USPAT	OR	OFF	2005/01/04 19:00
S71	4	("5939637" "6050147" "6312061" "6351996").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/01/04 19:02
S72	4	("3899766" "5535629" "5587601" "5661278").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/01/04 19:03
S73	8	("3890477" "4166996" "4274752" "4698612" "4900883" "5001317" "5061832" "5471022").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/01/04 20:14
S74	52	"6045755"	US-PGPUB; USPAT; USOCR	OR	OFF	2005/01/04 20:15
S75	7286	(diaphragm with (cap or plug or plunger or lid)) and pressure	USPAT	OR	OFF	2005/01/05 10:26
S76	1545	S75 and deflect\$4	USPAT	OR	OFF	2005/01/05 10:26
S77	100	S76 and (pressure near2 gauge)	USPAT	OR	OFF	2005/01/05 12:16
S78	7535	(vessel\$2 or tube\$2 or container\$2 or chamber\$2) near6 (diaphragm\$2 near3 pressure)	USPAT	OR	OFF	2005/01/05 12:17
S79	574	S78 near6 (plate or plunger or plug or stopper or cap or cover or lid)	USPAT	OR	OFF	2005/01/05 12:57
S80	4	(digestion near2 vessel\$2) with diaphragm\$2	USPAT	OR	OFF	2005/01/05 12:58
S81	9	("4933529").URPN.	USPAT	OR	OFF	2005/01/05 12:58
S82	2	("5345066").URPN.	USPAT	OR	OFF	2005/01/05 13:02
S83	2	("5948307").URPN.	USPAT	OR	OFF	2005/01/05 13:04
S84	0	("6803237").URPN.	USPAT	OR	OFF	2005/01/05 13:05
S85	15	("4613738" "4670404" "4736083" "4877624" "4882128" "4904450" "4933529" "4963261" "5013522" "5204065" "5264185" "5369034" "5382414" "5647976" "5948307").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/01/05 13:05
S86	15	("4613738" "4670404" "4736083" "4877624" "4882128" "4904450" "4933529" "4963261" "5013522" "5204065" "5264185" "5369034" "5382414" "5647976" "5948307").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/01/05 13:05
S87	9	("5382414").URPN.	USPAT	OR	OFF	2005/01/05 13:14
S88	1	("5750008").URPN.	USPAT	OR	OFF	2005/01/05 13:14
S89	0	("5505913").URPN.	USPAT	OR	OFF	2005/01/05 13:16

S90	105	(microwave near5 (vessel\$2 or chamber\$2)) and diaphragm	USPAT	OR	OFF	2005/01/05 13:25
S91	0	((422/240-242)".ccls") and diaphragm\$2 and (cap or lid or plunger)	USPAT	OR	OFF	2005/01/05 13:26
S92	0	((422/240-242)".ccls") and diaphragm\$2	USPAT	OR	OFF	2005/01/05 13:27
S93	0	(((422/240-242)".ccls") and diaphragm\$2).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2005/01/05 13:26
S94	6	((422/240-242)".ccls")	USPAT	OR	OFF	2005/01/05 13:27
S95	0	((422/100-118)".ccls")	USPAT	OR	OFF	2005/01/05 13:27
S96	0	((422/100-118)".CCLS")	USPAT	OR	OFF	2005/01/05 13:28
S97	12998	(((422/100-118).CCLS.)).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2005/01/05 13:29
S98	603	S97 and diaphragm	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2005/01/05 14:15
S99	31	("2812231").URPN.	USPAT	OR	OFF	2005/01/05 14:03
S100	150	S97 and diaphragm near3 pressure	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2005/01/05 14:15
S101	13	("4151253").URPN.	USPAT	OR	OFF	2005/01/05 14:20
S102	18	("3179122" "3265296" "3459369" "4079854" "4151253" "4168012" "4342419" "4672996" "4689306" "4690670" "4752445" "4882128" "4944425" "4944923" "4993602").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/01/05 14:49
S103	13	("4151253").URPN.	USPAT	OR	OFF	2005/01/05 14:51
S104	0	("5277874").URPN.	USPAT	OR	OFF	2005/01/05 14:59
S105	24	("2629148" "2932386" "2959488" "2964889" "2980248" "3215538" "3339878" "3379120" "3414229" "3481688" "3606995" "4216241" "4450122" "4739699").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/01/05 14:59
S106	755	Ingemar.in.	USPAT	OR	OFF	2005/01/10 13:24

S10 7	0	S106 and Urban.in.	USPAT	OR	OFF	2005/01/10 13:24
S10 8	9	S106 and Johan.in.	USPAT	OR	OFF	2005/01/10 13:25
S10 9	23042	(plunger or plug or stopper) and ((diaphragm or membrane) near4 pressure)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2005/06/14 14:07
S11 0	7058	S109 and (automat\$4 or robot\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2005/06/14 14:07
S11 1	18384	(plunger or plug or stopper or cover or lid) and ((diaphragm or membrane) near4 pressure) and (vessel or tube)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2005/06/14 15:29
S11 2	716	S111 and ("422"/\$)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2005/06/14 14:46
S11 3	0	("6217772").URPN.	USPAT	OR	OFF	2005/06/14 14:26
S11 4	1	("4450076").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/06/14 14:26
S11 5	342	S111 and ("436"/\$)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2005/06/14 14:46
S11 6	35	(plunger or plug or stopper or cover or lid) and ((self near3 (diaphragm or membrane)) near4 pressure) and (vessel or tube)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2005/06/14 14:48
S11 7	7	("6045757").URPN.	USPAT	OR	OFF	2005/06/14 15:09
S11 8	1	("6039698").URPN.	USPAT	OR	OFF	2005/06/14 15:18
S11 9	23	("2393578" "2744648" "2965932" "3379326" "3580423" "4254884" "4445836" "4664274" "5033476" "5042226" "5061263" "5326534" "5342316" "5472542" "5554134" "5620434" "5975313" "6017317" "6039698").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/06/14 15:18
S12 0	1	("6039698").URPN.	USPAT	OR	OFF	2005/06/14 15:21
S12 1	1	("4450076").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/06/14 15:28

S12 2	0	("6217772").URPN.	USPAT	OR	OFF	2005/06/14 15:28
S12 3	6594	(plunger or plug or stopper or cover or lid) and (((seal\$4) near5 diaphragm or membrane) near4 pressure) and (vessel or tube)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2005/06/14 15:29
S12 4	6554	S123 and (pressure near4 (membrane or diaphragm))	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2005/06/14 15:30
S12 5	597	S124 and ("422"/\$ or "436"/\$)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2005/06/14 15:30
S12 6	18	("4952498").URPN.	USPAT	OR	OFF	2005/06/14 15:55
S12 7	11339	(self near3 seal\$4) and (container or vessel or tube)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2005/06/15 11:59
S12 8	489	S127 and ("422"/\$)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2005/06/15 11:59
S12 9	211	S128 and needle	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2005/06/15 14:05
S13 0	12	"5382414"	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2005/06/15 14:05
S13 1	10	("3535482" "3778578" "4488935" "4736083" "4826575" "5338409" "5366595" "5382414" "5711857").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/06/15 14:07
S13 2	15	("4613738" "4670404" "4736083" "4877624" "4882128" "4904450" "4933529" "4963261" "5013522" "5204065" "5264185" "5369034" "5382414" "5647976" "5948307").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/06/15 14:08